



OSCILLATOR

Volume 23 Number 8

PHASE 3D: Ariane Flight Launch Delay by Keith, KB1SF

Arianespace has announced a delay in the launch of Flight 130. Until an upper stage anomaly (detected during endurance testing on Ariane-5 components) is resolved, Flight 130 and subsequent Ariane-5 launches are delayed.

AMSAT-NA President Keith Baker, KB1SF, says it is unknown at this time how the delay may affect the upcoming launch of Phase 3D.

KB1SF also reported that AMSAT-DL is exploring the delay on behalf of the Phase 3D team.

The delay was mandated by an anomaly that was detected during a long duration ground test of the attitude control system used on the Ariane series upper stage. Additional checks could not confirm the flight readiness of the attitude control system hardware

See DELAY, Page 6

Next Meeting — Wednesday, August 9th at 7 PM

Dean, KLØUX, will show pictures of our FIELD DAY 2000 event at our meeting on Wednesday, August 9th beginning at 7:00 pm. There will be other pictures passed around for everyone to enjoy. What a great way to spend a summer evening!

Come at 6:00 pm and join in a no-host buffet from the Elks Club. Why not bring a prospective member along?

Prexy's Prose JD FORT, K7JDF

Control Operator Selection Process

The Oregon Tualatin Valley Amateur Radio Club is looking for applicants to fill the positions of W7OTV control operators. The repeater, which is located on Goat Mountain above Mollala, is making a full transfer to the control of OTVARC. Part of that responsibility is the maintenance of the machine within the prescribed operating parameters. We are now seeking club members who feel they are up to that challenge and are willing to make a long term commitment to help OTVARC manage the machine.

If you are interested, contact me, K7JDF, or sign the Control Operator applicant signup sheet at the August General OTVARC meeting and in the next edition of the *Oscillator*.

See PREXY, Page 3

August 2000

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• Special points of interest:

- It is unknown if Ariane delay will slow Phase 3D
- This is not a time machine.
- Randy's Baggage was found, injured but present
- Rick, KK7B, receives award for QST article

Getting There Faster: Light's Speed Accelerated

Nothing moves faster than the speed of light. That's one of the first things you learn in physics. However, in a world that determines that nothing is absolute, except change, you might expect someone to come along and challenge this "rule" of matter.

Researchers with NEC Research Institute found they could **make pulses** of light zoom through a tube at a much faster speed. Using lasers and "special atoms"

they were able to make a pulse of light energy exceed its own top speed of 186,000 miles per second. The pulses appear to leave a laboratory tube before they have fully entered, with the peak of the pulse emerging from the tube 62 billionths of a second before the peak had entered.

"It looks as if you've done something magical ... but you can explain this based on physics. This is not a time machine,"

James Chadi, vice president of the institute's science division, said in a telephone interview from Princeton, New Jersey. The team's findings were published in the Thursday, July 27, 2000 issue of the journal *Nature*.

The experiment does not contradict Albert Einstein's theory of relativity, in which the great 20th century physicist set the speed of light in a vacuum as the absolute maximum speed for the

universe. According to Einstein's theory of relativity, nothing with mass -- like people or things -- can ever go faster than light, the researchers noted. But something with no mass, like a packet of light waves known as a pulse, can.

"Our experiment is perfectly consistent with Einstein's theory of special relativity," said lead researcher Lijun Wang. "Precisely speaking, it is the speed of information

transfer that is limited by the speed of light in a vacuum." All the necessary information about the pulse is contained in its tiny leading edge. As soon as this sliver of the pulse enters the chamber, the specially prepared atoms can begin making another, identical pulse at the chamber's far side.

This finding might have implications for telecommunications, Chadi said. A telecommunications

application may exist even though information cannot move any faster than the speed of light, and it usually moves much more slowly, according to Arthur Dogariu, one of the authors of the *Nature* paper.

"Information is basically pulses," Dogariu said. "When you talk about the Internet and fiber optic communications, it's limited by how the pulses can move through the wires, by how

many of them there are, how thick the wires are.

"If you can create the medium in which pulses propagate, it would allow them to go through faster as a packet of waves," he said. Any such application will not occur soon, and Dogariu said the environment he and his colleagues created in their laboratory could be re-created in other labs but not in nature.

This article summarized from a Reuters article by Deborah Zabarenko.

License Examinations, by Carl, WS7L

The Oregon Tualatin Valley Amateur Radio Club will sponsor testing sessions:

7 October
2 December

Please contact Carl Clawson, WS7L, 503-629-5796, ws7l@arrl.net, to preregister. The 2000 test reimbursement fee is \$6.65.

Public Service Event Dates

Add these dates to your calendar of public service events in which we participate through the club.

MS 150

Saturday and Sunday, August 5-6
kz7t@arri.net and n7rex@teleport.com

Bridge Pedal

Sunday, August 13 at 7:00 am
Jim@sbpimail.attmail.com

Hood To Coast Relay

Saturday and Sunday, August 25 - 26
Stevenj@teleport.com

Cycle Oregon

Dept of Oregon Tourism
September 9 - 16
kz7t@arri.net

Race for the Cure

Sunday, Sept. 17
w7ayl-marti@juno.com

Walk To Cure Diabetes

October
n7rex@teleport.com

Meier and Frank Holiday Parade

Friday, Nov. 24
Jim@sbpimail.attmail.com

Participants are needed for most public service events. If you wait to be "asked" you'll miss out on a lot of fun, as well as development of your operating skills.

Drop an email note to the contact person listed with the event and offer to help, or ask what would be required of you.

If you don't have email, call the editor (503-681-2345). I'd be glad to drop a note to the appropriate person for you.

Prexy, from page 1

Sign ups will close after the September General meeting. Representatives of the OTVARC Board will then distribute application forms to all members interested in the Control Operator positions.

Completed Control Operator Applications must be post marked or delivered to a Club Officer on or before October 11, 2000. Those applications will be evaluated by the board and a number of W7OTV control operators will be selected to serve.

The Control operators will then be contacted and announced in the December Oscillator.

Applicants will be evaluated in a number of areas including, but not limited to, their years of service to the club as well as license class. Knowledge of FCC regulations and accepted repeater etiquette and operating practices.

Basic radio theory, technical expertise in the radio arts, and knowledge of small group processes will also be areas in which applicants will be evaluated.

Watch the Oscillator for further details on the W7OTV control operator selection process.

For club members and non-club members, donations to the club repeater are accepted at any time. While the club has agreed to maintain the upkeep of the machine, all of us very much appreciate any designated gifts to the 146.960 machine.

Please make sure the checks are made out to OTVARC, with a notation that the funds are to be designated for repeater upkeep. Again thanks for your patience as we sort out some of the legal and technical issues that will allow us to better manage this valuable Club resource.

LUNCH BUNCH

QST DE WA0BRU...

The LUNCH BUNCH will gather on the Willamette Queen Steamboat for the August event. The hour-long cruise on the Willamette River includes your lunch. Its set for Saturday, August 26th from 12:00 Noon to 1:00 PM.

Cost is \$15 per adult (less 10% for Seniors 62+). Children 12 and younger are \$10.50.

Each person/couple will make their own reservation by calling 503-371-1103. Be sure you tell them you are with OTVARC when you call.

All members and friends of OTVARC are welcome to join with us.

ARRL BOARD MEETS

Follow the direction being set by your ARRL Officers and Board of Directors by reading the minutes of these meetings.

The minutes of the ARRL Board of Directors July meeting are available on the ARRL Web site at <http://www.arrl.org/announce/board-0007/>.

TRAVELERS

No Campout in August

For general information about the travelers, contact Betty Mickley at n7rex@teleport.com.

Metropolitan Amateurs' Picnic

The Metropolitan Amateurs' Picnic will be held on Saturday, September 9th from 11 AM to 3 PM. Mark your calendar for this "eye-ball" QSO event.

The Metro Picnic will be held at Red Sunset Park in Gresham. A The Picnic is sponsored by OTVARC; Hoodview Amateur Radio Club; Clark County Amateur Radio Club; Portland Amateur Radio Club; and P.R. A.G.

The cost is \$1 per person. Attendees bring their own beverage (no alcohol please), and either a salad or dessert. Plates, hamburgers and hotdogs are provided. We eat at Noon.

We have TWO ample shelters, so our native rain is not a problem! You're encouraged to bring your non-ham friends, new hams, and hams who have not joined a club. No pets please.

From I-84, take the Wood Village exit. Turn right (south) for two miles to Red Sunset Drive, right a half-block.

5th Wednesday

Awards are given for two classes of stations, QRP (5 watts or less) and more than 5 watts.

The Fifth Wednesday Contest is an exercise to help determine 2 meter capability using simplex (147.54 MHz). Our third Fifth Wednesday Contest will be held Wednesday, August 30th. See Information page in this issue of the *Oscillator*.

Club NOTES

- Welcome to W7AND, KD7HLC, and KB7MRA to our July OTVARC meeting. We'd be glad to have you come again and join us.
- Randy, KZ7T, seems to have a hard time taking care of his luggage. Seems he left it in the parking lot at SEAPAC when he checked out of his motel. To add insult to injury, he ran over his own stuff! Jim, KB7ADH, rescued the goods. There's more to this story...
- Mark, W7CLU, delivered a fine program on home-brewed antennas in July. You can just about load anything...
- A new 440 repeater is in the works for OTVARC.
- A necklace was found at FIELD DAY 2000. It may belong to Randy, KZ7T, but if you lost one, see Carl, WS7L.

ARRL AWARDS INCLUDE RICK CAMPBELL, KK7B

The ARRL Board of Directors selected Rick Campbell, KK7B, of Portland, Oregon, as the recipient of the 1999 Doug DeMaw, W1FB, Technical Excellence Award. Campbell was selected on the basis of his March 1999 QST article, "A Binaural I-Q Receiver."

The Directors has named 20-year-old Brian Milesosky, N5ZGT, of Albuquerque, New Mexico, as winner of the 1999 Hiram Percy Maxim Award. The Hiram Percy Maxim Award goes each year to a radio amateur under the age of 21 whose Amateur Radio accomplishments and contributions are of the most exemplary nature.

First licensed at age 12, Milesosky has a long track record of promoting ham

radio among his peers. An ARRL member, Milesosky is an active Official Observer and was a speaker at the "Youth in Amateur Radio" at the 2000 Dayton Hamvention and ARRL National Convention. He is a member of the Board of Directors to the Upper Rio FM Society Inc, a Volunteer Examiner, and a member of both the Bernalillo County and the Sandoval County ARES teams. He also runs a weekly, statewide swap net.

Milesosky begins his senior year this fall at the University of New Mexico, where he is pursuing a degree in electrical engineering.

Milesosky will receive a cash award of \$1000, an engraved plaque, and a expenses-paid trip to an ARRL convention for a formal presentation.

The Board named Allen Wolff, KC7O, of Sierra Madre, California, as the 1999 ARRL

Herb S. Brier Instructor of the Year Award. This award is presented to a volunteer ham radio instructor. Wolff, an ARRL Life Member, has been teaching ham radio for 14 years.

The Board voted Dan Calzaretta, NX9C, of Portland, Oregon, as the 1999 ARRL Professional Educator of the Year. This award goes to a professional teacher within a school system. Calzaretta has been teaching ham radio for 20 years. He's on the staff at the Pacific Crest Community School, where he added Amateur Radio to the curriculum.

Diane Ortiz, K2DO, of Bellport, New York, was named by the Board as the winner of the 1999 Philip J. McGan Memorial Silver Antenna Award for her public relations efforts on behalf of Amateur Radio. An ARRL Life Member, she edits the "YL News" column in QST. Ortiz has achieved outstanding success in telling the Amateur Radio story. She also hosts a cable television program.

DELAY, from page 1

installed on the Flight 130 vehicle. In compliance with its policy to give absolute priority to quality and reliability, Arianespace will not authorize the launch of Flight 130 until all causes of the anomaly have been completely analyzed and corrective measures applied.

AR-130 had been scheduled for launch near the end of July -- using the Ariane 5 heavy-lift launcher to orbit the Astra 2B and GE-7 satellites.

D EETH & ASSOCIATES

- * Telecommunications
- * Most Key Systems
- * TIE/Norstar/ & Others
- * Security Systems

503-324-3737
Pager 503-818-0581
Fax: 503-324-4833

Ray Deeth
180 So. Main (#C)
Banks, Oregon 97106

OTVARC 5TH WEDNESDAY RADIO CONTEST - August 30, 2000

- 1) Object: To work as many amateur stations as possible in as many different 5-digit ZIP codes as possible, using 147.54 FM simplex.
- 2) Contest Period: 2000 local through 2100 local, Wednesday, August 30, 2000.
- 3) Categories:
 - A) Single Operator: One person performs all operating and logging functions.
 - B) Single Operator QRP: Same as (A) with a power limitation of 5 watts.
 - C) Multi-operator: More than one person performing operating and logging functions.
- 4) Exchange: Operating 5-digit ZIP Code and Station Category.
- 5) Scoring:
 - A) QSO points: Count one (1) point for each complete single operator or multi-operator QSO. Count two (2) points for each complete single operator QRP contact.
 - B) Multiplier: The total number of 5-digit ZIP codes worked.
 - C) Total score: Multiply the total number of QSO points by the multiplier.
- 6) Miscellaneous:
 - A) Partial QSOs do not count. Both calls, the full exchange, and acknowledgement must be sent and received.
 - B) While no minimum distance is specified for contacts, equipment should be capable of real communications (ie. able to communicate over at least 1 km.).
 - C) Use of repeaters and telephones to coordinate contacts is not allowed.
 - D) Rovers are not allowed as entries in the contest. Mobile stations can be contacted by stations in the contest. Mobile stations will not have a ZIP code and will not count toward the multiplier count.
 - E) Only one call may be used by any station.
- 7) Reporting:
 - A) Entries must be delivered to the contest organizers at or before the September 13, 2000 OTVARC club meeting. (to: Jim Schaeffer, KB7ADH)
 - B) Entries must be made on log sheets showing time of QSO, Call, Zip Code and Contest Category.
- 8) Awards:
 - A) Certificates will be awarded for the top points winner in each station category.
 - B) Awards will be made at the club meeting October 11, 2000.

Contest Summary Sheet

Call Used _____ Operating ZIP Code _____

Other Operators _____

Category: A - Single Op B - Single Op QRP C - Multi-operator

Scoring:

Category A QSO's _____

x1 = _____

Category B QSO's _____

x2 = _____

Category C QSO's _____

x1 = _____

TOTAL QSO Points _____

Times Number of Zip Codes x _____

TOTAL CLAIMED SCORE _____

Signed _____

Date _____

Attach Log Sheets detailing all contacts, including Call, ZIP Code, Category, and Time.

Club Contact Directory

OTVARC Executive Board

President	J.D. Fort	K7JDF	jdradio@teleport.com	503-259-0269
Vice President	Janet Bell	WB7FJC	wb7fjc@arrl.net	503-648-4147
Secretary	Mike McDonald	KC7YSW	macsuer@teleport.com	503-692-5893
Treasurer	Linda Sutton	KC7YTD	kb7pww@msn.com	503-246-8879
Trustee	Jack Smithson	KA7HOJ	ka7hoj.webtv.net	503-646-1873
Trustee	Will Sheffield	N7THL	n7thl@juno.com	503-642-7314
Trustee	Jim Blanchard	W7HOW	w7how@juno.com	503-579-0248
Trustee	Alvin Carlson	KB7VHI	alvinc@sequent.com	503-629-5728
Trustee	Julia Landers	KD7GQW	wa0bru@juno.com	503-646-1546

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	boborr@onlinemac.com	503-472-2716
Equipment Loan	Stan Griffiths	W7NI	w7ni@teleport.com	503-649-0837
Equipment Valuation	Randy Stimson	KZ7T	kz7t@arrl.net	503-297-1175
Equipment Trustee	Al Berg	W7SIC	w7sic@pocketmail.com	503-816-7098
Emergency Services	J.D. Fort	K7JDF	jdradio@teleport.com	503-259-0269
Field Day Coordinator	Harold Landers	WA0BRU	wa0bru@juno.com	503-646-1546
	Jack Smithson	KA7HOJ	ka7hoj.webtv.net	503-646-1873
Health & Welfare	Linda Sutton	KC7YTD	kb7pww@msn.com	503-246-8879
Historian	Al Berg	W7SIC	w7sic@pocketmail.com	503-816-7098
Internet Home Page	Marc Chamberlin	WA7PXW	marco@easystreet.com	503-357-1869
	Betty Mickley	N7REX	mmickley@teleport.com	503-642-1284
Member Badges	Carl Clawson	WS7L	carlclawson@compuserve.com	503-629-5796
Newsletter Editor	Everett Curry	W6ABM	w6abm@arrl.net	503-681-2345
Newsletter Distribution	Mike McDonald	KC7YSW	macsuer@teleport.com	503-692-5893
Nominating Committee	OPEN			
Project Night	Alan Chinnock	KB7POR	kb7por@aol.com	503-636-2237
Public Relations	J.D. Fort	K7JDF	jdradio@teleport.com	503-259-0269
Public Service	Randy Stimson	KZ7T	kz7t@arrl.net	503-297-1175
Repeater	Wes Allen	K7WWG	wesa@dnc.net	503-649-3295
RFI & TVI	Dale Mosby	K7FW	dale@sequent.com	503-640-0217
Satellites	Everett Curry	W6ABM	w6abm@amsat.org	503-681-2345
Scholarship	Carl Clawson	WS7L	carlclawson@compuserve.com	503-629-5796
Sea-Pac	Al Berg	W7SIC	w7sic@pocketmail.com	503-816-7098
"	Brad Beach	N7NVC	bbeach@teleport.com	503-657-1781
"	Jim Schaeffer	KB7ADH	jim.schaeffer@sulzerpumps.com	503-245-2518
"	Randy Stimson	KZ7T	kz7t@arrl.net	503-297-1175
"	Will Sheffield	N7THL	n7thl@juno.com	503-642-7314
Station Trustee	Hanford Van Ness	KE7BB	ke7bb@email.msn.com	503-246-7975
Social	Harold Landers	WA0BRU	wa0bru@juno.com	503-646-1546
Technical Specialist	Stan Griffiths	W7NI	w7ni@teleport.com	503-649-0837
Tower Ordinances	Greg Milnes	W7OZ	w7oz@arrl.org	503-648-6990
Trailer	Dee Lynch	K7JRB	deek7jrb@arrl.net	541-745-1025
Training (upgrade)	Janet Bell	WB7FJC	wb7fjc@arrl.net	503-648-4147
Travelers	Betty Mickley	N7REX	mmickley@teleport.com	503-642-1284
VE Test Coordinator	Carl Clawson	WS7L	carlclawson@compuserve.com	503-629-5796
VHF/UHF	Arnold Jensen	W7DSA		503-543-3713

Hamfests And Conventions

5-6 Aug 2000

Eastern Washington Section Conv.
NW Tri-State ARO; Palouse Hills
ARC; Inland Empire VHF &
Spokane Radio Amateurs;
Kamiak Butte Am. Rptr.
Betsy Ashleman, N7WRQ
3903 East 48th Avenue
Spokane, WA 99223
509-448-5821
n7wrq@aol.com
<http://www.iea.com/~n7utg>

19 Aug 2000

Lower Columbia ARA
Bob Morehouse, KB7ADO
2437 Allen Street
Kelso, WA 98626
360-425-6076
kb7ado@aol.com
<http://www.qsl.net/nc7p/swapmeet.htm>

16-17 Sep 2000

Alaska State Convention
Anchorage ARC
John Bury, KL7QZ
10300 Thuja Circle
Anchorage, AK 99507
907-349-8754
bury@gci.net
kl7aa.akconnect.com

23 Sep 2000

Walla Walla Amateur Radio Club
Mary Hayter, KC7PNE
1870 East Alder Street
Walla Walla, WA 99362-2602
509-522-5227
kk7sr@arrl.net

14 Oct 2000

North Kitsap ARC
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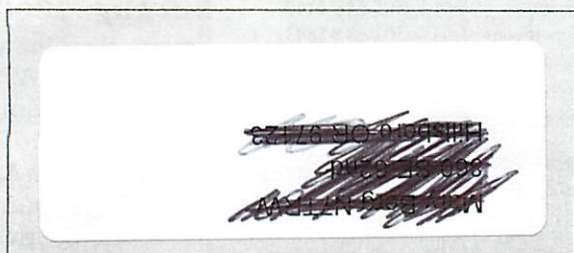
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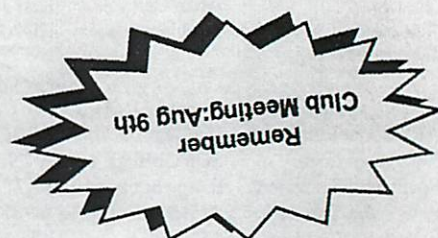
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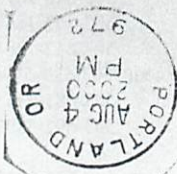


Web: WWW.OTVARC.ORG
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 Simplex: 147.54 MHz
 Editor: W6ABM@arrl.net



Oregon Tualatin Valley
 Amateur Radio Club
 Post Office Box 5132
 Aloha OR 97006-0132

OTVARC



Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective and established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, our intent is to promote the advancement of Amateur Radio Service, through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during events & community activities.
3. Emergency communications in emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits when you join or renew your membership in the ARRL through the club. Contact the treasurer at any regular meeting.

Newsletter: The OTVARC Oscillator is the club newsletter. It is published monthly and mailed on the first of the month. Opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff. Editor's E-mail: ecurry@teleport.com. August 2000 OSCILLATOR deadline is Saturday, August 26th.

Internet Home Page: WWW.OTVARC.ORG



Correspondence: All correspondence may be sent to **OTVARC, PO Box 5132, Aloha, OR 97006-0132.**

Meetings: We have two meetings per month. The Board meeting is on the fourth Wednesday of each month. Club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Lodge. 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7 PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.00.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for prorated dues schedule.

How to join: Mail the Membership application and/or renewal form with your dues to the Club address.